THREE DIMENSIONAL ELECTROASSEMBLY

ABSTRACT OF THE DISCLOSURE

A process for forming a three dimensional decorative pattern on a product substrate uses electrostatic forces placed on dielectric fibers and electrostatic latent images written either onto an intended product substrate or onto a transfer surface, or both, to assemble three dimensional composite structures of fibers or rod-shaped components in a matrix of a second dielectric material. The fibers or other rod-shaped components may extend from the matrix to form a surface that is either plush or relatively smooth. The transfer surface may be a photoconductor with an electrostatic latent image that is written with controlled light or it can be made of a dielectric material and be rigid and conforming to the intended product substrate or flexible and made to conform to the intended product substrate.